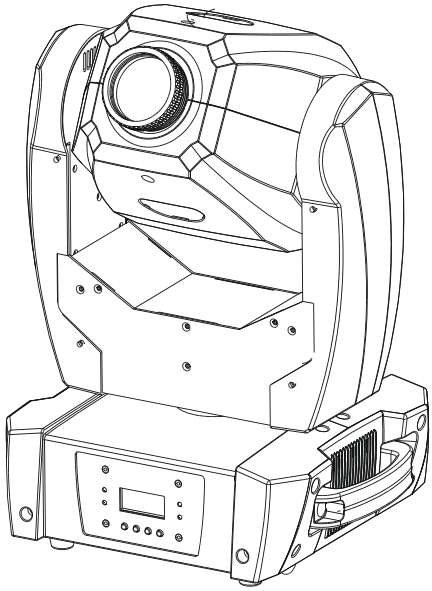
iSolution
Your integrated Solution

iMove 50S



User Guide

Professional Entertainment Technology

TABLE OF CONTENTS

1. Safety Instructions

2. Technical Specifications

3. How To Set The Unit

4. How To Control The Unit

5. Troubleshooting

6. Fixture Cleaning

1. Safety Instruction

WARNING

Please read carefully the instruction, which includes important information about the installation, usage and maintenance.

- Please keep this User Guide for future use.. If you sell the unit to another user, be sure that they also receive this user manual.
- Unpack and check carefully there is no transportation damage before using the unit.
- Before operating, ensure that the voltage and frequency of the power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The unit is for indoor use only. Use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before replacement or servicing.
- Make sure there is no flammable materials close to the unit while operating as it is a fire hazard.
- Always use a safety cable when installing this unit. Don't carry the unit by its head only, but always carry it using the base.
- The maximum ambient temperature is to: 40℃. Don't operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 85℃. Don't touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or servicing.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Do not touch any wire during operation as high voltage might be causing electric shock.

Warning

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- Do not open the unit within five minutes after switching off.

- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution

There are no user serviceable parts inside this unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it.

2. Technical Specification

- iMove 50S is the combination of the latest high powered LED technology, excellent optics and great features.
- DMX control: 8/11 channels selectable.
- 3 operation modes: DMX, Master/Slave, Sound Activation.
- Great built-in lighting programs under master/slave mode triggered by music.
- Optional CA-8 easy controller or CA-9 RTX (wireless easy control kit) for instant lighting shows.
- Rotating gobo wheel with 6 gobos plus white.
- Color wheel with 8 colors plus white.
- Beam angle: 15°
- Automatic Pan/Tilt position correction.
- Smooth 0~100% dimming and variable strobe speeds.
- LED display for easy navigation and addressing.
- Perfect for disco, club, bar, parties and Mobile DJs.
- Pan: 540°. Tilt: 270°

Voltage: 120V/230V, 50/60Hz

Power consumption: 112W at 230V

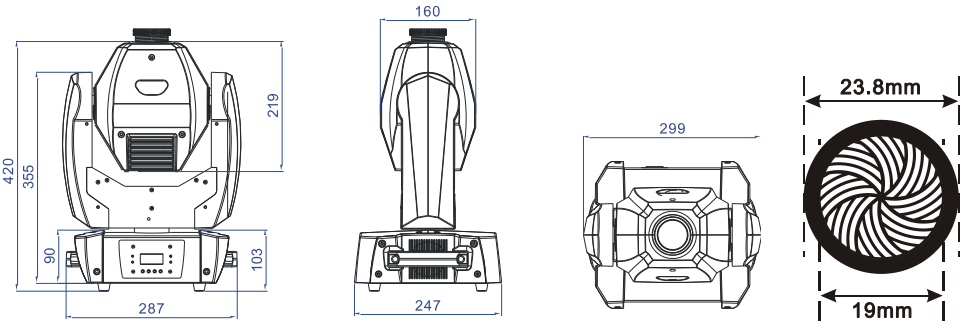
Light source: 1 x 50W LED

Dimensions: 299 x 247 x 420 mm

Φgobo wheel=109 mm

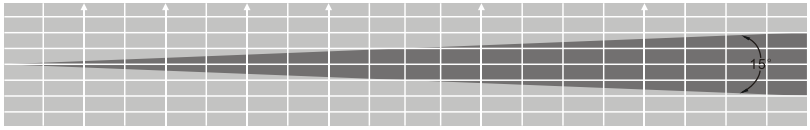
Φgobo =19 mm

Weight: 10 kgs



Photometric diagram:

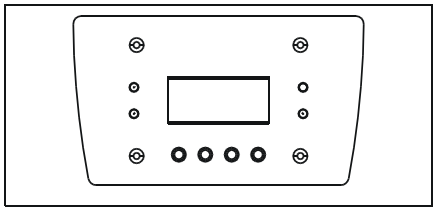
White	36000	7835	3596	1949	1172	(lux)
Yellow	24600	6044	2687	1420	262	
Cambridge blue	6670	1739	770	409	253	
Dark green	7760	1976	872	473	286	
Red	1572	397	176	97	59	
Purplish red	1312	328	143	79	47	
Blue	1349	354	154	81	52	
Orange	11300	2832	1215	659	391	
Light green	8176	2081	917	490	297	

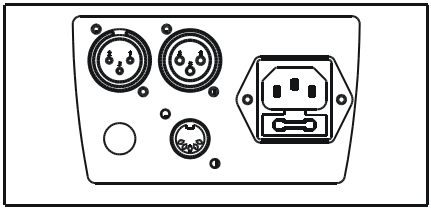


Distance(m)	0	1.0	2.0	3.0	4.0	5.0
Spot diameter(m)		0.23	0.46	0.7	0.93	1.21

3. How To Set The Unit

3.1 Control panel





Display

To show the various menus and the selected functions

LED

DMX	On	DMX input present
MASTER	On	Master Mode
SLAVE	On	Slave Mode
SOUND	Flashing	Sound activation

Button

MENU	To select the programming functions
DOWN	To go backward in the selected functions
UP	To go forward in the selected functions
ENTER	To confirm the selected functions

Only for remote control

Connecting with CA-8/CA-9/CA-9RTX to control the unit for Stand by, Function and Mode function.

Mains input

Connect to power supply.

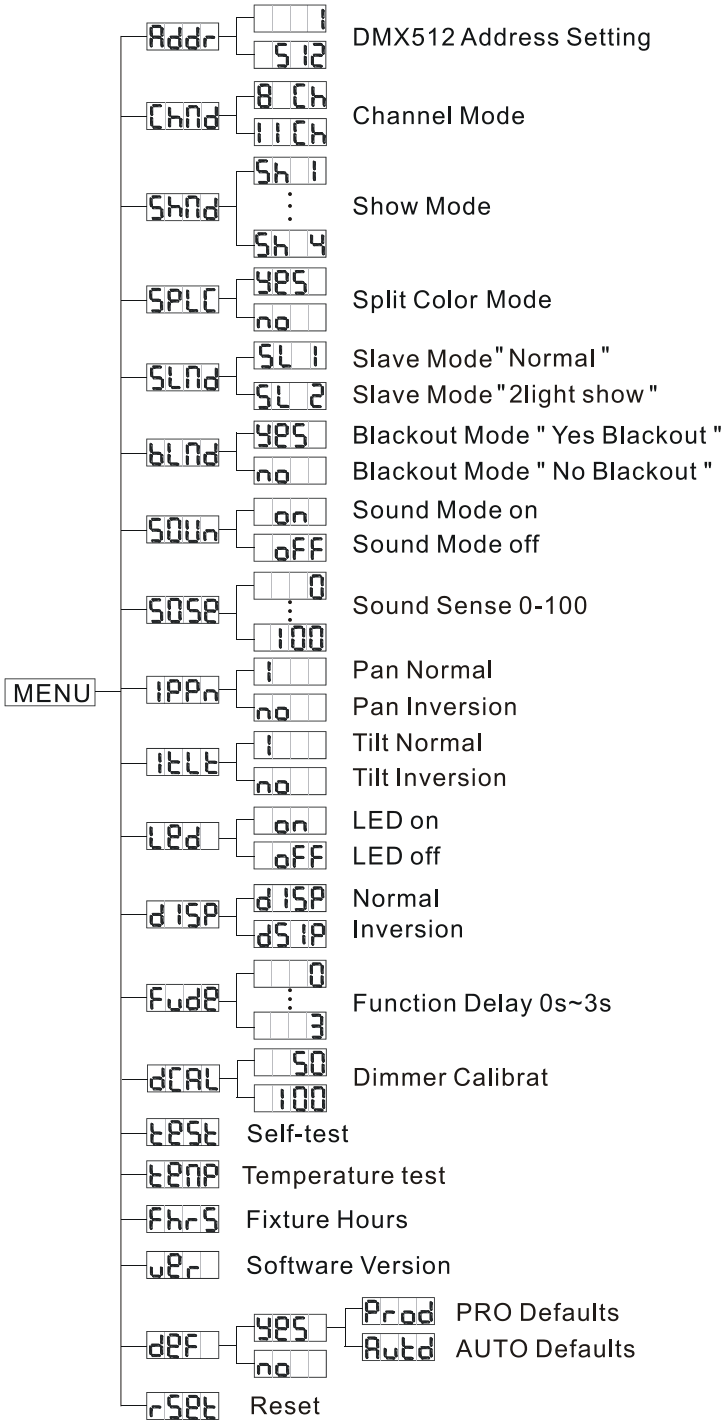
DMX input/output

For DMX512 link, use 3/5-pin XLR cable to link the unit together.

3.2 Main Function

To select any of the given functions, press the **MENU** button up to when the required one is showing on the display. Select the function by pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to change the mode. Once the required mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

The main functions are showing below:


MENU
Addr
1
512
DMX512 Address Setting
ChNd
8 Ch
11Ch
Channel Mode
ShNd
Sh 1
Sh 4
Show Mode
SPLC
YES
no
Split Color Mode
SLNd
SL 1
SL 2
Slave Mode" Normal "
Slave Mode" 2light show "
bLNd
YES
no
Blackout Mode " Yes Blackout "
Blackout Mode " No Blackout "
SOUn
on
oFF
Sound Mode on
Sound Mode off
SOSE
0
100
Sound Sense 0-100
IPPn
1
no
Pan Normal
Pan Inversion
ItLt
1
no
Tilt Normal
Tilt Inversion
LEd
on
oFF
LED on
LED off
dISP
dISP
dSIP
Normal
Inversion
FudE
0
3
Function Delay 0s~3s
dCAL
50
100
Dimmer Calibrat
tEST
Self-test
tEMP
Temperature test
FHrS
Fixture Hours
uEr
Software Version
dEF
YES
no
Prod
Autd
PRO Defaults
AUTO Defaults
rSEt
Reset

DMX 512 Address Setting

Press the **MENU** button to show

on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to change the DMX512 address. Once the address has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

Channel Mode

Press the **MENU** button to show

on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the

(8 channel mode) or

(11 channel mode) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

Show Mode

Press the **MENU** button to show

on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the

(show 1) or

(show 2) or

(show 3) or

(show 4) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

Split Color Mode

Press the **MENU** button to show

on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the

(Split color mode) or

(normal) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

Slave Mode

Press the **MENU** button to show

on the display. Press the **ENTER** button and the

display will blink. Use the **DOWN** and **UP** buttons to select the SL 1 (normal) or SL 2 (2 light show) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

bLnd Blackout Mode

Press the **MENU** button to show bLnd on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the YES (yes blackout) or no (no blackout) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

SOUn Sound Mode

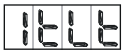
Press the **MENU** button to show SOUn on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the on (sound on) or oFF (sound off) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

SOSE Sound Mode

Press the **MENU** button to show SOSE on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the 0 … 100 mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

IPPn Pan Inversion

Press the **MENU** button to show IPAn on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the no (normal) or I (pan inversion) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

 Tilt Inversion

Press the **MENU** button to show on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the (normal) or (tilt inversion) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

Led Display

Press the **MENU** button to show on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the (Led on) or (Led off) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

Display Inversion

It is good for you to install the unit on the floor or under ceiling. Press the **MENU** button to show on the display. Press the **ENTER** button to change to the mode (display normal), It will automatically store after 8 seconds. Or press the **ENTER** button again return to the mode (display inversion). To go back to the functions press the **MENU** button. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

Display normal mode for the fixture putting on the floor.

Display inversion mode for the fixture fixing under ceiling.

Function Delay

Press the **MENU** button to show on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the **0**(No Delay) or **1/2/3** (Wait for 1/2/3 seconds before these Functions of 15/16 CH are activated/deactivated) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

Dimmer Calibrate

Press the **MENU** button to show on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to calibrate the dimmer for a maximum output from (limited to 50% of the really max. output) to (maximum output is not limited). Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

Self-Test

Press the **MENU** button to show on the display. Press the **ENTER** button and the unit will run self-test by built-in program. To go back to the functions press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

Temperature Test

Press the **MENU** button to show on the display. Press the **ENTER** button and the display will show the temperature of the unit. To go back to the functions press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

Fixture Hours

Press the **MENU** button to show on the display. Press the **ENTER** button and the display will show the number of working hours of the unit. To go back to the functions press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

Software version

Press the **MENU** button to show on the display. Press the **ENTER** button and the display will show the version of software of the unit. To go back to the functions press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

Defaults Setting

Press the **MENU** button to show on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the or . Once the has been selected, press the **ENTER** button and use the **UP** and **Down** button to select the or .

: For professional users, detailed explanation as followings:

- →
- →
- →
- →
- →
- →
- →
- →
- →
- →

: Mostly automatic mode, for non professional users, detailed explanation as followings:

- →
- →
- →
- →
- →
- →
- →
- →
- →
- →

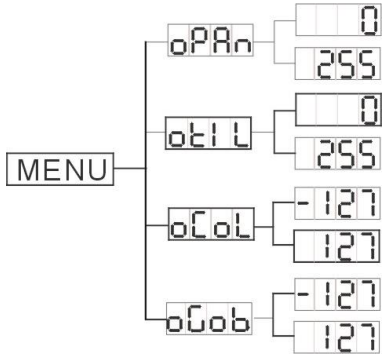
(**Notice**: Other settings are NOT changed while choosing Defaults Setting!)

Press the **ENTER** button and the corresponding functions will set to defaults setting, to go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

rSEt Reset

Press the **MENU** button to show rSEt on the display. Press the **ENTER** button and all channels of the unit will return to their standard position. To go back to the functions without any change press the **MENU** button again. Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

3.3 Home Position Adjust



In the main functions, hold the **Enter** button for at least 3 seconds into offset mode, use the **DOWN** and **UP** buttons up to chose oPAn, otIL, oCoL or oGob, Pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to adjust the home position of the Pan, Tilt, Color, Gobo. Once the position has been selected, press the **ENTER** button to setup, Hold and press the **MENU** button for about one second or wait for one minute to exit the menu mode.

4. How To Control The Unit

You can operate the unit in three ways:

1. Master/slave built-in preprogram function
2. Easy controller
3. Universal DMX controller

No need to turn the unit off when you change the DMX address, as new DMX address setting will take effect at once. Every time you turn the unit on, it will show nSSO on the display and move all the motors to their 'home' position and you may hear some noises for about 20 seconds. After that the unit will be ready to receive DMX signal or run the built in programs.

4.1 Master/Slave Built In Preprogrammed Function

By linking the units in master/slave, the first unit will control the other units to give an automatic, sound activated or synchronized light show. This function is good when you want an instant show. You have to set the first unit into master mode SHMD and select SH 1 (show 1) or SH 2 (show 2) or SH 3 (show 3) or SH 4 (show 4) mode. Its DMX input socket will have nothing plugged into it, and Its master LED will be constantly on and sound LED will flash to the music. The other units will have to set in slave mode SLMD and select SL 1 (normal) or SL 2 (2 light show) mode, Their DMX cables plugged into the DMX input sockets (daisy chain) and the slave led lights will constantly on.

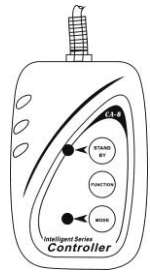
2-light show

In SLMD (slave mode), SL 1 means the unit works normally and SL 2 means 2-light show. In order to create a great light show, you can set SL 2 on the second unit to get contrast movement to each other, even if you have two units only.

4.2 Easy Controller

The easy remote control is used only in master/slave mode. By connecting to the 1/4" microphone jack of the first unit, you will find that the remote control on the first unit will control all the other units functions press the MENU button again.

Stand By	Blackout the unit		
Function	1. Sync. Strobe 2. Async strobe 3. Sound Strobe	Show 1-4	1. Press to select color 2. Hold to select gobo
Mode	Sound (LED OFF)	Show (LED Slow Blinking)	LED ON



4.3 DMX Controller

By using a universal DMX controller to control the units, you have to set DMX address from 1 to 512 channel so that the units can receive DMX signal.

Press the **MENU** button up to when the ADDR is showing on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to change the DMX512 address. Once the address has been selected, press and keep **ENTER** button pressed up to when the display stops blinking or storing automatically 8 seconds later. To go back to the functions without any change press the **MENU** button again. If you use please refer to the following diagram to address your DMX512 channel for the first 4 units：

8 Channel Mode: 1 9 15 23

11 Channel Mode: 1 12 23 34

4.4 DMX 512 Configuration

8 channel modes：

8Channel mode

Ch1	Ch2	Ch3	Ch4
Pan	Tilt	Shutter	Gobo
255 540 0 0°	255 270 0 0°	248-255 Open 240-247 Random Strobe 232-239 Open 190-231 Fast Open Slow Close 182-189 Open 140-181 Fast Close Slow Open 132-139 Open Fast 16-131 Slow 8-15 Open 0-7 Blackout	255 Rotation Fast 194 Rotation Slow 190-193 Stop 189 Rotation Slow 128 Rotation Fast 110-127 Gobo7 shaking 101-109 Gobo5 shaking 092-100 Gobo4 shaking 083-091 Gobo3 shaking 074-082 Gobo2 shaking 064-073 Gobo1 shaking 048-063 Gobo6 040-047 Gobo5 032-039 Gobo4 024-031 Gobo3 016-023 Gobo2 008-015 Gobo1 000-007 White

Ch5		Ch6	Ch7	Ch8
Color Wheel (Normal)	Color Wheel (Split Color Mode)	R-Gobo	Dimmer	Function
255 Rotation Fast **128 Rotation Slow** **113-127 Color8** **099-112 Color7** **085-098 Color6** **071-084 Color5** **057-070 Color4** **043-056 Color3** **029-042 Color2** **015-028 Color1** **000-014 White**	255 Rotation Fast 128 Rotation Slow 120-127 Color16 113-119 Color15 105-112 Color14 098-104 Color13 090-097 Color12 083-089 Color11 075-082 Color10 068-074 Color9 060-067 Color8 053-059 Color7 045-052 Color6 038-044 Color5 030-037 Color4 023-029 Color3 015-022 Color2 008-014 Color1 000-007 White	**255 Rotation Fast** **194Rotation Slow** **190-193 Stop** **189 Rotation Slow** **128 Rotation Fast** **000-127 Index**	255 100% 0 0%	250-255 Sound Active 210-249 No Function 200-209 Reset All 130-199 No function 120-129 Disable blackout while Gobo change 110-119 Enable blackout while Gobo change 100-109 Disable blackout while Color change 090-099 Enable blackout while Color change 080-089 Disable blackout while Pan/Tilt move 070-079 Enable blackout while Pan/Tilt move 000-069 No Function

11 channel modes:

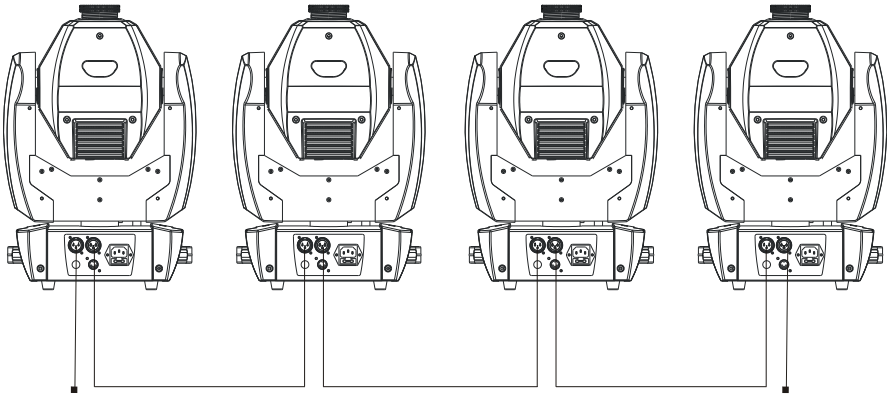
11Channel mode

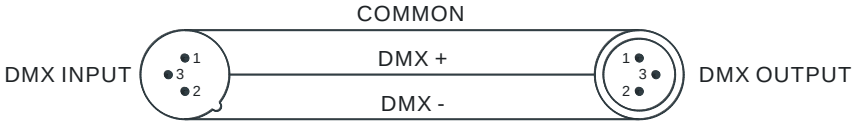
Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7
Pan	Pan Fine	Tilt	Tilt Fine	Pan/Tilt Speed	Dimmer	Shutter
255 540 0 0°	255 0	255 270 0 0°	255 0	255 Slow 0 Fast	255 100% 0 0%	248-255 Open 240-247 Random Strobe 232-239 Open 190-231 Fast Open Slow Close 182-189 Open 140-181 Fast Close Slow Open 132-139 Open 16-131 Fast / Slow 8-15 Open 0-7 Blackout

Ch8		Ch9	Ch10	Ch11
Color Wheel (Normal)	Color Wheel (Split Color Mode)	Gobo	R-Gobo	Function
255 Rotation Fast **128 Rotation Slow** **113-127 Color8** **099-112 Color7** **085-098 Color6** **071-084 Color5** **057-070 Color4** **043-056 Color3** **029-042 Color2** **015-028 Color1** **000-014 White**	255 Rotation Fast 128 Rotation Slow 120-127 Color16 113-119 Color15 105-112 Color14 098-104 Color13 090-097 Color12 083-089 Color11 075-082 Color10 068-074 Color9 060-067 Color8 053-059 Color7 045-052 Color6 038-044 Color5 030-037 Color4 023-029 Color3 015-022 Color2 008-014 Color1 000-007 White	**255 Rotation Fast** **194Rotation Slow** **190-193 Stop** **189Rotation Slow** **128 Rotation Fast** **110-127 Gobo7 shaking** **101-109 Gobo5 shaking** **092-100 Gobo4 shaking** **083-091 Gobo3 shaking** **074-082 Gobo2 shaking** **064-073 Gobo1 shaking** **048-063 Gobo6** **040-047 Gobo5** **032-039 Gobo4** **024-031 Gobo3** **016-023 Gobo2** **008-015 Gobo1** **000-007 White**	**255 Rotation Fast** **194Rotation Slow** **190-193 Stop** **189 Rotation Slow** **128 Rotation Fast** **000-127 Index**	250-255 Sound Active 210-249 No Function 200-209 Reset All 130-199 No function 120-129 Disable blackout while Gobo change 110-119 Enable blackout while Gobo change 100-109 Disable blackout while Color change 090-099 Enable blackout while Color change 080-089 Disable blackout while Pan/Tilt move 070-079 Enable blackout while Pan/Tilt move 000-069 No Function

GOBO:

4.5 DMX512 Connection





Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal.
(Resistance 120 ohm 1/4W)between pin2(DMX-)and pin3(DMX+) of the last fixture.

1. If you are using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.
2. At the last unit, the DMX cable has to be terminated with a termination plug. Solder a 120 ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
3. Connect the unit together in a `daisy chain` by XLR plug from the output of the unit to the input of the next unit. The cable can not be branched or split to a `Y` cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
4. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
5. Each lighting unit needs to have an address set to receive the data sent by the controller. The address number is between 1-512 (usually 0 & 1 are equal to 1).
6. The end of the DMX 512 system should be terminated to reduce signal errors.
7. 3 pin XLR connectors are more popular than 5 pin XLR.

3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin 4/Pin 5: Not used.

5. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. Some units don't respond to the easy controller

1. You may have a break in the DMX cabling. Check the LED for the response of the master/ slave mode signal.
2. Wrong DMX address in the unit. Set the proper address.

D. No response to the sound

1. Make sure the unit does not receive DMX signal.
2. Check microphone to see if it is good by tapping the microphone

E. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition

6. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

EC Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55014-2: 1997 A1: 2001, EN61000-4-2: 1995; EN61000-4-3: 2002; EN61000-4-4: 1995; EN61000-4-5: 1995, EN61000-4-6: 1996, EN61000-4-11: 1994.

&

Harmonized Standard

EN60598-1: 2000+ALL: 2000+A12: 2002
Safety of household and similar electrical appliances
Part 1: General requirements

Innovation, Quality, Performance